| Index | c of ( | Claim | s |
|-------|--------|-------|---|
|       |        |       |   |

Application No.

O9/874,795

Examiner

Applicant(s)

HIRD, GEOFFREY R.

Art Unit

| <b>√</b> | Rejected |  |
|----------|----------|--|
| =        | Allowed  |  |

|   | *                              |
|---|--------------------------------|
| ı | (Through numeral)<br>Cancelled |
| + | Restricted                     |

| N | Non-Elected  |  |
|---|--------------|--|
| ı | Interference |  |

Paula W Klimach

| A | Appeal   |
|---|----------|
| 0 | Objected |

2135

| Cl          |          | Date     |                 |   |          |          |          | Claim Date                             |    |              |        |                |          |              |              |          |         | laim            | Date            |         |         |          |          |              |              |                                     |                                   |          |               |                 |          |   |
|-------------|----------|----------|-----------------|---|----------|----------|----------|--|----|--------------|--------|----------------|----------|--------------|--------------|----------|---------|-----------------|-----------------|---------|---------|----------|----------|--------------|--------------|-------------------------------------|-----------------------------------|----------|---------------|-----------------|----------|---|
| <b>├</b> ~  |          | $\vdash$ |                 | _ |          | <u> </u> | Ť        | Т                                      | 1  | 1            | 1      | <del>'''</del> |          | $\vdash$     | Т            | 1        | T       | Ť               | $\neg$          | 1       | 1:::    | ⊢        | Ī        | $\vdash$     |              |                                     |                                   | ا        | $\overline{}$ | 1               | T        | _ |
| Final       | Original | 2/17/05  |                 |   |          |          |          |  |    |              |        | Final          | Original |              |              |          |         |                 |                 |         |         | Final    | Original |              |              |                                     |                                   |          |               |                 |          |   |
| <u> </u>    | ō<br>1   | 7        |                 |   | _        |          | _        |  | -  | $\downarrow$ | _      |                | 51       |              | $\downarrow$ | _ _      | _       | Ш               | _               |         | 4       | L.       | 101      |              | Ц            |                                     |                                   | Ц        |               |                 | -        |   |
|             | 2        | 1        | ├─┤             | _ | _        | -        |          | ├                                      | ┝  | +            | -      |                | 52       | ╁            | -+           | -        | ╁       | ╂═┤             | -               | - -     | ┨       | ├        | 102      | Н            | Н            | -                                   | Н                                 | -        |               | +               | $\dashv$ | _ |
|             | 3        | 1        | ├               |   |          | -        | -        | ├                                      | ├  | +            | -      | <u> </u>       | 53       | ╁╌┤          |              | +        | +       | ┨               |                 |         | -       | <u> </u> | 103      | $\vdash$     | -            | _                                   | -                                 | -        | -             | -               | $\dashv$ |   |
|             |          | _        | ╌┤              |   | _        | -        | ļ        | ļ                                      | ├  | ╁            | -1     | <u> </u>       |          | Н            |              |          | ╂       | ┥               |                 |         | -       | <u> </u> |          | H            |              |                                     | _                                 |          | $\dashv$      | -               | -        |   |
| <u> </u>    | 4        | 1        | H               |   |          | <u> </u> | -        |  | ┡  | +            |        | -              | 54       | Н            | -            | -        | ╁       | $\vdash$        | $\dashv$        | +       | -       | <u> </u> | 104      | Ш            |              | Ш                                   |                                   | $\Box$   |               | -               | -        |   |
|             | 5        | ٧,       | Н               |   | _        | _        | -        | -                                      | ┡  | ╁:           | 4::::  | <b></b>        | 55       | Н            | $\dashv$     | +        | +       | $\vdash$        |                 | -       | 4::::   | <u> </u> | 105      | Ш            | -            | -                                   | _                                 |          |               | $\dashv$        | -        |   |
| <u> </u>    | 6        | 1        | $\vdash$        | _ | _        | 1—       | <u> </u> | ╄                                      | ┞  | +            | -      |                | 56       | Н            | -            | _        | -       | $\vdash$        | -               | -       | -       |          | 106      | Н            | -            | _                                   | Н                                 | Ш        | _             | $\dashv$        | -        |   |
| <u> </u>    | 7        | 1        | $\vdash$        | _ | _        | -        |          | -                                      | ┝  | ╄            | -      |                | 57       | $\vdash$     |              |          | +-      | -               | +               | +       | -       |          | 107      | -            |              | $\blacksquare$                      |                                   |          |               |                 |          |   |
| -           | 8        | 1        | $\vdash$        |   |          | -        | -        | -                                      | L  | +            | -1:::: |                | 58<br>59 | $\vdash$     | -            | +        | ┿       | $\vdash$        | -+              | +       | 4::::   | -        | 108      |              | _            | _                                   | $\vdash$                          | _        |               | $\dashv$        | -        |   |
| <b>├</b> ── | 9        | _        | ┞╼╂             |   |          | -        |          | ├-                                     | ╀  | +            |        |                |          | -            |              |          |         | $\vdash$        | -               | +       | -       | <u> </u> | 109      | _            | -            | _                                   | -                                 | _        | $\vdash$      | $\dashv$        | $\dashv$ |   |
|             | 10       | 1        | Н               |   | _        | _        | <u> </u> |  | ┡  | +            | -1:::: | <u> </u>       | 60       | $\vdash$     | -            | -        | ╄       | $\vdash$        | -               |         | -initia |          | 110      | _            | _            |                                     |                                   |          | _             |                 |          |   |
| <u></u>     | 11       | 1        | $\vdash$        | - |          | <u> </u> | <u> </u> | <del> </del> —                         | ⊢  | +            | -      | ⊢—             | 61       | $\vdash$     | $\dashv$     | +        | +       | $\vdash$        | $\dashv$        | +       | -       | <u> </u> | 111      | _            | Н            |                                     | $\vdash$                          | $\vdash$ | Н             | $\vdash \vdash$ |          | _ |
|             | 12       | 1        | $\vdash$        | _ | -        | ⊢-       | <u> </u> | ├                                      | ⊢  | +            | -      | <u> </u>       | 62       | Н            | -            | -        | +       | $\vdash$        |                 | +       | - :::   | <u> </u> | 112      | <u> </u>     | H            |                                     |                                   |          |               | $\sqcup$        |          |   |
| <u></u>     | 13       | 1        | $\vdash \vdash$ | _ | <u> </u> | ļ        | <b>├</b> | <b>├</b> —                             | ⊢  | +            | -      | <u> </u>       | 63       | Н            | $\dashv$     | +        | +       | $\vdash$        | -               |         | -       | ├        | 113      | <u> </u>     | Н            | <u> </u>                            | $\vdash$                          | Н        | $\vdash$      | $\sqcup$        |          | _ |
|             | 14       | 1        | $\vdash$        |   | _        | <u> </u> | <u> </u> | ļ.                                     | Ļ  | +            | -      | <u> </u>       | 64       | Н            |              |          | 4       | $\vdash$        | _               |         | 4       | <u> </u> | 114      | _            | Н            |                                     | L                                 | _        |               | $\dashv$        | $\dashv$ |   |
| <u> </u>    | 15       | 1        | $\vdash \vdash$ |   | _        | <b> </b> | <u> </u> |  | ╀  | +            | 4::::  |                | 65       | Н            | $\dashv$     | -        | +       | $\vdash \vdash$ |                 |         | 4       | <u> </u> | 115      | <del> </del> | $\vdash$     |                                     | $\vdash$                          | Ш        |               | $\sqcup$        | _        | _ |
| L           | 16       | 1        | Ш               |   |          | L        |          | _                                      | 1  | +            | 4::::  |                | 66       | $\vdash$     | -            | -        | 4_      | $\vdash$        |                 | -       | 4::::   |          | 116      | _            |              |                                     |                                   |          |               | _               | _        |   |
|             | 17       | 1        | $\sqcup$        |   | _        | ╙        | _        | ┺                                      | Ļ  | _            | _      |                | 67       | 1            |              | $\dashv$ | 4       | 1               | $\rightarrow$   | $\perp$ | 4       |          | 117      |              |              |                                     |                                   |          |               | $\Box$          | _        |   |
|             | 18       | 1        | $\sqcup$        |   | _        | <u> </u> | L        | <u> </u>                               | ┡  | +-           | - :::: |                | 68       | Ш            |              | _        | _       | ļ.              | $\perp$         | _       | 4::::   |          | 118      |              | Щ            |                                     |                                   |          |               | _               |          | _ |
|             | 19       | 1        | _               |   | _        | <u> </u> | ┡        | _                                      | ╄  | $\bot$       | 4::::  |                | 69       |              |              | _        | ļ       | $\perp$         |                 |         | 4::::   |          | 119      |              | _            |                                     | $oxed{oldsymbol{oldsymbol{eta}}}$ |          |               |                 | $\dashv$ | _ |
| L           | 20       | 1        | Ш               |   |          | L        | ╙        | ┡                                      | ╀  | 4            | 4::::  |                | 70       | 1            |              | 4-       | 4       | ш               | $\vdash$        | _       | 4::::   |          | 120      | _            | <u> </u>     |                                     | _                                 |          |               | Ш               | _        |   |
|             | 21       | 1        | Ш               |   | ļ        | _        | _        | <u> </u>                               | Ļ  | _            | _      |                | 71       |              | -            | -        |         | ₩               |                 |         | 4       |          | 121      | lacksquare   | $\vdash$     | lacksquare                          |                                   |          |               | $\Box$          | _        |   |
|             | 22       | 1        | Щ               |   | _        | L        | ļ.,      | <u> </u>                               | ┞  | ┿.           | _      |                | 72       | ļ            | _            | $\perp$  | 4       | Ш               |                 |         | 4       |          | 122      |              |              | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | L_                                | _        | _             | _               | _        |   |
|             | 23       | 1        |                 |   |          | ŀ        | <u> </u> | _                                      | L  | ┵            | _::::  |                | 73       |              | _            | _        | -       | 1_              |                 |         | 4:::    |          | 123      | _            |              | <u> </u>                            | _                                 |          | _             |                 | _        |   |
| <u> </u>    | 24       | 1        | Ш               | _ |          | _        | <u> </u> | ⊢                                      | ╀  | $\bot$       | 4      |                | 74       | _            | $\dashv$     |          | _       | $\vdash$        | $\dashv$        | -       | 4       |          | 124      | _            | L            | <u> </u>                            | _                                 | <u> </u> |               |                 | _        |   |
| L           | 25       | 1        |                 |   |          |          | _        | _                                      | ╀  | _            | 4::::  |                | 75       | 1_           | _            |          | _       | $\perp$         | 4               | _       | 4:::    |          | 125      | _            |              | _                                   | _                                 |          |               | $\sqcup$        | _        |   |
| <u> </u>    | 26       | 1        | $\sqcup$        |   | _        | _        | ┞        | ╄                                      | ╀  | $\bot$       | 4      |                | 76       | <b>—</b>     | -+           | _        | $\bot$  | Н               | _               | - -     | 4       |          | 126      | -            |              | _                                   | <u> </u>                          | _        |               | $\sqcup$        | $\dashv$ | _ |
| <u> </u>    | 27       | 1        | Ш               |   |          | Ь        | <u> </u> | ┞-                                     | L  | $\bot$       | 4::::  |                | 77       | _            | $\dashv$     | _        | _       | Ш               |                 |         | 4:::    |          | 127      | <u> </u>     | L.,          |                                     | L                                 |          | Щ             | Щ               | _        |   |
|             | 28       | 1        | Ш               |   |          | _        | <u> </u> | ــــــــــــــــــــــــــــــــــــــ | Ļ  | $\bot$       | _::::  |                | 78       | _            | $\dashv$     |          | _       |                 |                 | _       | 4::::   |          | 128      | L            | L            | _                                   | _                                 |          | L             | $\Box$          | _        | _ |
|             | 29       | 1        |                 |   | _        | L        | ļ.,      | ╙                                      | ╀  | $\bot$       | 4::::  |                | 79       | L            | $\perp$      | _        | $\bot$  | $\perp$         |                 | _       | 4       |          | 129      | <u> </u>     | ļ            | _                                   | <u> </u>                          | _        | <u> </u>      | $\sqcup$        | _        | _ |
|             | 30       | 1        | Ш               |   | _        | _        | _        | _                                      | ╀  | $\perp$      | 4      |                | 80       | <u> </u>     | _            | 4-       |         | -               |                 |         | 4       |          | 130      | _            |              | <u> </u>                            | <u> </u>                          | _        | <u> </u>      | $\sqcup$        | -        | _ |
|             | 31       | 1        | $\square$       |   | <u> </u> | ╙        | ļ        | ـــــ                                  | ╄  | +            | 4      |                | 81       | _            | _            |          | 4       | 1               |                 |         | 4       | <u> </u> | 131      | <u> </u>     | <u> </u>     |                                     | <u> </u>                          |          | $\vdash$      |                 | _        | _ |
| <u> </u>    | 32       | 1        |                 |   | <u> </u> | <u> </u> | _        | ┞                                      | ┺  | $\bot$       | _      |                | 82       | <u> </u>     |              |          | $\bot$  | $\perp$         | L.              | _       | 4       |          | 132      | L            | ╙            | ļ                                   | <u> </u>                          | <u> </u> | _             |                 | _        | _ |
| <u> </u>    | 33       | 1        | $\sqcup$        |   | <u> </u> | $\vdash$ | $\vdash$ | <del> </del>                           | Ļ  | +-           | 4:::   |                | 83       |              | $\dashv$     | 4        | 4       | $\perp$         | $\perp$         | 4       | 4:::    |          | 133      | <u> </u>     | _            | <u> </u>                            | <u> </u>                          | <u> </u> | <u> </u>      | $\sqcup$        |          | _ |
|             | 34       | 1        | Ш               |   | <u> </u> | <u> </u> | $\vdash$ |  | ╀  | -            | 4:::   |                | 84       | <b> </b>     | $\perp$      | $\bot$   | +       | $\vdash$        | $\sqcup$        | _       | 4       | <u> </u> | 134      | L            | $oxed{oxed}$ | $\vdash$                            | Ь                                 | $\vdash$ | L             | Щ               |          |   |
| <u> </u>    | 35       | 1        | $\sqcup$        |   | <u> </u> | $\vdash$ | ₩        | ऻ                                      | ╀  | $\bot$       | 4      | <u> </u>       | 85       | $\vdash$     | $\sqcup$     | 4        | $\bot$  | $\sqcup$        | $\perp$         | $\perp$ | 4       |          | 135      | <b> </b>     | <u> </u>     | <u> </u>                            | <u> </u>                          | <u> </u> | <u> </u>      | $\sqcup$        | _        |   |
| <u> </u>    | 36_      | 1        |                 |   | ļ        | <u> </u> | ┞        | ╀                                      | ╀  | +            | 4      | <u> </u>       | 86       | $\vdash$     | $\vdash$     | _        | +       | $\Box$          | 4               |         | 4       | <u> </u> | 136      |              | <b> </b>     | <u> </u>                            | ⊢                                 | -        | <u> </u>      | Ш               | _        | _ |
| <b>├</b> ─  | 37       | 1        | $\sqcup$        |   | L        | <u> </u> | ऻ_       | _                                      | ╀  | +            | 4::::  | <u> </u>       | 87       | $\vdash$     | $\vdash$     |          | $\perp$ | $\perp$         | 1               | +       | 4::::   | <u> </u> | 137      | L            | _            | L                                   | <u> </u>                          | $\vdash$ | L             | Ш               |          | _ |
| <u> </u>    | 38       | 1        | $\vdash$        |   | <u> </u> | ╙        |          | _                                      | ╀  | $\bot$       | 4      | <u> </u>       | 88       | $oxed{oxed}$ | $\perp$      | 4        | $\perp$ | $\sqcup$        | 1               |         | 4::::   | <u> </u> | 138      | <b> </b>     | <u> </u>     | <u> </u>                            | <u> </u>                          | ļ        | <u> </u>      | Ш               | _        | _ |
| <u> </u>    | 39       | 1        | $\sqcup$        | _ | <u> </u> | <u> </u> | ₩        | _                                      | ╀  |              | 4      | <u> </u>       | 89       | $\vdash$     | $\dashv$     | 4        | -       | 1               |                 | +       | -       | <u> </u> | 139      | <u> </u>     | $\vdash$     | <u> </u>                            | ├                                 | <u> </u> | <u> </u>      |                 | _        | _ |
| <u> </u>    | 40       | 1        | $\sqcup$        | _ | <u> </u> | ┞        | ــ       | <u> </u>                               | ╀  | 4-           | 4      |                | 90       | ļ            | $\dashv$     | _        | +       | $\vdash$        | $\perp$         | 4       | 4       | <u> </u> | 140      | <u> </u>     | <u> </u>     | <u> </u>                            | <u> </u>                          | _        | <b> </b>      | $\vdash \vdash$ | _        |   |
| <b>└</b>    | 41       | 1        | $\vdash$        |   | <u> </u> | <u> </u> | ┞        | ┞-                                     | ╄  | 4            | 4      | <u> </u>       | 91       | <b>—</b>     | $\sqcup$     | 4        | $\bot$  | $\vdash$        |                 |         | 4       | <u> </u> | 141      | <u> </u>     | <u> </u>     | <u> </u>                            | <u> </u>                          |          | ┕             | $\sqcup$        |          | _ |
| <u> </u>    | 42       | 1        |                 |   | <u> </u> | <u> </u> | ـ        | ┞-                                     | ╀  | $\bot$       | 4      | <u> </u>       | 92       | <b> </b>     | $\sqcup$     | _        | +       | $\vdash$        |                 | +       | 4       |          | 142      |              | _            |                                     | <u> </u>                          | _        |               | $\vdash$        | _        | _ |
|             | 43       | ٧        | $\sqcup$        |   | $\vdash$ | ⊢-       | -        | ـ                                      | ╀- | 4            | 4:::   |                | 93       | <u> </u>     | $\dashv$     | _        | +       | $\vdash$        | $\perp$         |         | 4::::   |          | 143      | <u> </u>     | _            | <b> </b>                            | <u> </u>                          | _        | _             |                 | _        | _ |
|             | 44       |          | $\square$       |   | -        | -        |          | -                                      | ╀  | +            | -      |                | 94       |              |              |          | -       | -               |                 | -       | 4       |          | 144      |              |              |                                     |                                   |          | -             |                 |          |   |
|             | 45       |          |                 |   |          |          |          | 1                                      | 1  | 1            | 4      |                | 95       |              |              | -        | +       |                 |                 | +       | 4       | _        | 145      |              | -            | $\vdash$                            | _                                 |          | <u> </u>      | $\square$       |          |   |
|             | 46       | <u> </u> | Н               | _ | L        | ⊢        | ₩        | ╀                                      | ╀  | 4            | -      | _              | 96       | ₩.           | $\dashv$     | +        | +       | $\vdash$        |                 | _       | -       | _        | 146      | $\vdash$     | ⊢            | $\vdash$                            | <u> </u>                          | $\vdash$ | H             | Н               | _        | _ |
| <b>├</b>    | 47       | ⊢        | $\vdash$        | _ | <u> </u> | ┞        | ₩        |  | ╀  | +            | 4      |                | 97       | $\vdash$     | $\dashv$     | 4        | +       | $\vdash$        | $\vdash$        | +       | 4       |          | 147      | $\vdash$     | $\vdash$     | $\vdash$                            | ⊢                                 | $\vdash$ | $\vdash$      | Н               | _        | _ |
| <u> </u>    | 48       | <b>—</b> | Н               |   | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$                               | ╀  | +            | -      | <u> </u>       | 98       | $\vdash$     | $\dashv$     | +        | +       | $\vdash$        | $\vdash$        | 4       | - :::   | _        | 148      | $\vdash$     | $\vdash$     | <u> </u>                            | _                                 | $\vdash$ | $\vdash$      | Н               | _        | _ |
| <u> </u>    | 49       | $\vdash$ | Н               |   | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$                               | ╀  | +            | -      |                | 99       | $\vdash$     | $\dashv$     | +        | +       | $\vdash$        | $\vdash \vdash$ | -       | - :::   |          | 149      | $\vdash$     | $\vdash$     | $\vdash$                            | $\vdash$                          | $\vdash$ | ⊢             | Н               | _        | _ |
| L           | 50       |          | Ш               |   | _        |          | <u> </u> | <u> </u>                               | 乚  |              | ا      | <u> </u>       | 100      |              |              |          |         | 1               |                 | ᆚ       | _ ::::  |          | 150      |              |              |                                     |                                   |          | L             | Ш               |          |   |